

1 BILL NO. S-87-09-18

2 SPECIAL ORDINANCE NO. S- 251-87

3 AN ORDINANCE approving the awarding
4 of Reference #813, by the City of
5 Fort Wayne, Indiana, by and through
6 its Department of Purchasing and
7 Crown Battery Manufacturing Company,
8 for the City Utilities Garage.

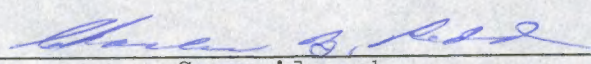
9 NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL OF
10 THE CITY OF FORT WAYNE, INDIANA:

11 SECTION 1. That Reference #813, between the City of
12 Fort Wayne, Indiana, by and through its Department of Purchasing
13 and Crown Battery Manufacturing Company, for the City Utilities
14 Garage, respectfully for:

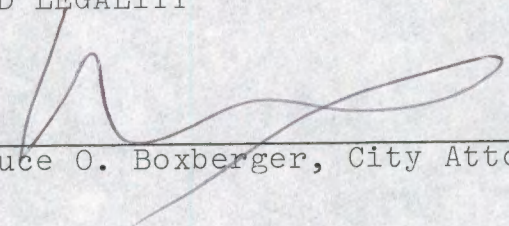
15 the purchase of all types and sizes
16 of vehicle batteries for the City
17 Utilities Garage. This award should
18 be to the Crown Battery Mfg. Company,
19 reflecting the lowest cost to the City
20 of Fort Wayne;

21 involving a total cost of Ten Thousand Dollars and No/100
22 (\$10,000.00+/-), all as more particularly set forth in said Re-
23 ference #813, which is on file in the Office of the Department of
24 Purchasing and is by reference incorporated herein, made a part
25 hereof, and is hereby in all things ratified, confirmed and ap-
26 proved.

27 SECTION 2. That this Ordinance shall be in full force
28 and effect from and after its passage and any and all necessary
29 approval by the Mayor.

30 
31 Councilmember

32 APPROVED AS TO FORM
AND LEGALITY

33 
Bruce O. Boxberger, City Attorney

Read the first time in full and on motion by Read
seconded by Esteban, and duly adopted, read the second time
by title and referred to the Committee City of Fort Wayne (and the City
Plan Commission for recommendation) and Public Hearing to be held after
due legal notice, at the Council Chambers, City County Building, Fort Wayne,
Indiana, on _____, the _____ day of _____,
19____, at _____ o'clock _____ M., E.

DATE: 9-8-87

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Read the third time in full and on motion by Read
seconded by Esteban, and duly adopted, placed on its
passage. PASSED (LOST) by the following vote:

	AYES	NAYS	ABSTAINED	ABSENT	TO-WIT:
TOTAL VOTES	<u>8</u>	_____	_____	<u>1</u>	_____
BRADBURY	<u>✓</u>	_____	_____	_____	_____
BURNS	<u>✓</u>	_____	_____	_____	_____
EISBART	<u>✓</u>	_____	_____	_____	_____
GIAQUINTA	<u>✓</u>	_____	_____	_____	_____
HENRY	_____	_____	_____	<u>✓</u>	_____
REDD	<u>✓</u>	_____	_____	_____	_____
SCHMIDT	<u>✓</u>	_____	_____	_____	_____
STIER	<u>✓</u>	_____	_____	_____	_____
TALARICO	<u>✓</u>	_____	_____	_____	_____

DATE: 9-22-87

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Passed and adopted by the Common Council of the City of Fort
Wayne, Indiana, as (ANNEXATION) (APPROPRIATION) (GENERAL)
(SPECIAL) (ZONING MAP) ORDINANCE (RESOLUTION) NO. 2251-87
on the 22nd day of September, 1987,

ATTEST:

(SEAL)

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Mark E. Giaquinta
PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana,
on the 23rd day of September, 1987,
at the hour of 11:00 o'clock PT. M., E.S.T.

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Approved and signed by me this 23rd day of September,
1987, at the hour of 3:00 o'clock P. M., E.S.T.

Win Moses, Jr.
WIN MOSES, JR., MAYOR

2.
(Front Page)

CITY OF FORT WAYNE

DEPARTMENT OF PURCHASING
ONE MAIN STREET - ROOM 350
FORT WAYNE, INDIANA 46802

BID REFERENCE # 813

DATE February 23, 1987

DUE DATE Thursday, March 12, 1987 at 10:15 A.M.

Department receiving bid items City Utilities Garage
1705 S. Lafayette Street
Fort Wayne, Indiana 46803

Bid Bond Required NO YES X AMOUNT \$500.00

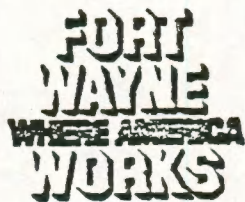
Performance Bond Required NO X YES AMOUNT

Affirmative Action-On file with the City of Fort Wayne
Attached to this document XXX

Prompt payment discounts will be allowed as follows: 2 3
if paid within 30 days.

The City of Fort Wayne is exempt from Federal excise and Indiana State Sale Tax. The City's Indiana Sales Tax Exemption Certificate number is 356-001-255 0013, prices should not include these taxes.

The execution hereof by the bidder is acceptance of all terms and conditions herein and in that regard the bidder agrees to be bound by same and be bound to the amount of his/her bid for a period of sixty (60) days.



Crown Battery Mfg. Co.

Name of Company
by James A. White Agent
(signature)
Address 1445 Majestic Drive
City Fremont, OH 43420

CROWN BATTERY

MANUFACTURING COMPANY

1445 Majestic Dr. • P.O. Box 1570 • Fremont, Ohio 43420 • PH. 419-334-7181

March 6, 1987

Crown Battery has been manufacturing quality batteries since 1926 and maintains a factory branch at:

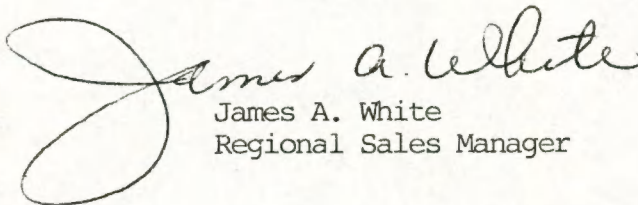
3000 East Washington Blvd.
Fort Wayne, IN 46803
(219) 423-3357
Phil Rosier, Manager

with trained technicians to solve all your battery problems and answer any questions you may have pertaining to battery and charger systems.

Please contact Phil Rosier.

Batteries are filled and fully charged, ready for use.

Trade-in allowance: 50¢ for automotive junks turned in
75¢ for any commercial, group 4, 30H or 31's
\$1.00 for any 4D or 8D



James A. White
Regional Sales Manager

JAW/tma

on

.....Indiana....., 19.....

To
State name official position and municipality

Pursuant to notices given, the undersigned proposes to furnish the material or materials, equipment, goods or supplies as per said notices and specifications now on file in the office of.....

state name	official position	and municipality
and as per copy thereof, hereto attached, or as described herein for the following amounts:		

(State the class or item number or an exact description of the material or materials, equipment, goods or supplies to be furnished and amount of bid on each article.)

Class or Item	Quantity	Unit	Quality — Description	Unit Price	Amount
			Lead Acid Storage Batteries on an as-needed basis manufactured by Crown Battery Mfg. Co., Fremont, Ohio.		
IF MORE SPACE IS NEEDED—ATTACH SEPARATE SHEET					

IF MORE SPACE IS NEEDED—ATTACH SEPARATE SHEET

AFFIRMATIVE ACTION PROGRAM
CROWN BATTERY MANUFACTURING COMPANY
FREMONT, OHIO

MARCH 1, 1986

CONFIDENTIAL

PRODUCT NUMBER	BATTERY TYPE	CCA/ A.H.	
12 V. DOMESTIC AUTO BATTERIES			
1001	UT-60	575	\$ 33.93
1005	22F-60	535	29.72
1010	22F-50	450	25.44
1015	22F-40	375	22.62
1025	24-70	650	33.30
1030	24-60	540	29.72
1035	24-50	475	25.44
1040	24-40	375	22.62
1045	24F-70	650	33.30
1050	24F-60	540	29.72
1055	24F-50	475	25.44
1060	24F-40	375	22.62
1065	74-70	650	34.66
1070	74-60	540	30.82
1075	74-50	475	26.71
1080	74-40	375	23.76
1081	78-60	540	32.19
1085	27-70	710	37.07
1090	27-50	535	32.10
1100	27F-70	710	36.39
1105	27F-50	535	32.10
1110	26-60	575	29.13
1111	26-50	450	25.71
1112	26R-60	575	29.19
1113	26R-50	450	25.64
1114	34-60	540	30.45
1115	70-60	575	28.56
1120	70-50	450	25.82
1135	62-60	525	37.32
1136	62-50	425	33.50
1140	58-60	420	36.97
1150	55-60	575	30.96
1151	55-50	450	27.91
1153	64-60	710	48.71
12 V. FOREIGN AUTO BATTERIES			
1175	41-60	650	45.14
1180	42-60	430	32.89
1185	42-36	360	29.56
1190	45-60	410	32.19
1195	49-60	620	60.02
1200	48-60	475	54.03
6 V. FOREIGN AUTO BATTERIES			
1220	17-24	410	27.63
1225	19-36	450	28.50
COMMERCIAL BATTERIES			
1240	4D-24	850	76.42
1245	5D-24	700	44.66
1250	7D-24	975	47.34
1256	8D-24	1,000	83.44
1255A	8D-30	1,195	88.55
1255B	8B-24	1,195	93.10
1257	714	575	57.87
1260	24-24	400	31.23
1265	24F-24	400	31.23

PRODUCT NUMBER	BATTERY TYPE	CCA/ A.H.	
COMMERCIAL BATTERIES (Continued)			
1270	27-24	420	\$ 33.55
1275	27F-24	420	33.55
1280	4H-30	800	37.58
1281	4H-24	680	32.65
1285	30H-24	700	40.68
1290A	31A-30	750	45.19
1290S	31S-30	750	45.19
1291A	31A-24	580	38.37
1291S	31S-24	580	38.37
FARM TRACTOR BATTERIES			
1205	1-24	480	23.22
1305	1-30	575	25.58
1210	2-24	525	28.39
1315	2-30	625	29.95
1320	22NF-24	410	25.09
1345	17TF-24	525	51.50
1350	16TF-24	550	69.46
1355	3ET-30	475	39.23
1360	3EH-24	825	39.23
1370	4DL-30	725	65.88
1375	V1-24	390	32.14
1380	V2-24	510	34.65
MOTORCYCLE BATTERIES			
1615	608	32	32.85
1564	6N6	6	5.27
1565	12N5	5	9.91
1570A	12N7-A	7	10.86
1570B	12N7-B	7	12.06
1575	12N9	9	12.01
1585	12N12	12	14.41
1590	12N14	14	15.89
1595	12N16	16	20.16
1600	12N18	18	18.13
1605	CB10L	11	17.57
1610	CB14L	14	20.56
FORKLIFT BATTERIES			
1155	29NF-24	380	31.18
1160	3EE-24	345	34.32
1165	53-24	295	31.91
1170	60-24	430	35.75
1215	2E-24	550	34.71
UTILITY MARINE BATTERIES			
1400	U1R-24	230	18.13
1403	U1-24	230	18.13
1406	U1-12M	230	25.38
1409	U1-12	210	16.99
1630	U2-12	130	24.53
1412	33-12	250	26.60
1415	MAR-40	425	25.93
1418	MAR-50	525	28.57
1421	MAR-60	650	32.34
1424	24T-36	85	35.51
1427	27T-36	105	38.07

PRODUCT NUMBER	BATTERY TYPE	CCA/ A.H.	
GOLF CART, SCRUBBER, SWEEPER BATTERIES			
1430A	701 A/T	190	\$ 36.38
1430C	701 C/T	190	36.38
1435A	702L A/T	220	39.96
1435C	702L C/T	220	39.96
1440A	702H A/T	220	47.47
1440C	702H C/T	220	47.47
1445A	703 A/T	225	59.35
1445C	703 C/T	225	59.35
1445F	703 F/T	225	59.35
1450A	704 A/T	305	73.78
1450C	704 C/T	305	73.78
1455A	705 A/T	245	71.28
1455F	705 F/T	245	71.28
1465A	711 A/T	150	81.62
1460F	706 F/T	345	87.26
1470A	712 A/T	185	89.24
MINE CAR BATTERIES			
1472	720	720	156.43
1473	721	721	169.27
1474	722	722	186.55
1475	723	723	204.17

PRODUCT NUMBER	BATTERY TYPE	CCA/ A.H.	
LOCOMOTIVE, MARINE BATTERIES			
1511	811	811	\$ 91.77
1515	813	813	94.38
1520	815	815	96.26
1525	817	817	101.53
1530	819	819	122.32
1535	821	821	133.30
1540	823	823	144.10
1545	825	825	155.57
TRANSIT CAR BATTERIES			
1555C	850 (16V)	850	136.13
ORDNANCE BATTERIES			
1635	6TN	540	93.25
1558	2HN	225	58.64
ADDITIONAL MOTORCYCLE BATTERIES			
1580	12N11	11	14.56
1640	CB16A1A2	16	27.57
1643	CS0N18LA1	18	27.57
1645	CB14A	14	21.25

TERMS: 2% CASH
2% WARRANTY & ADJUSTMENT ALLOWANCE

PRICES BASED ON 26¢ LEAD.

* * FOR USE WITH 1 - 99 BATTERIES * *

BATTERY SPECIFICATIONS

BCI GROUP	DIMENSIONS			PRODUCT NUMBER	BATTERY TYPE	SUGGESTED WARRANTY	CAPACITY			
	LENGTH	WIDTH	HEIGHT				VOLTS	AMPS CRANKING AMPS @ 0°F	RESERVE CAPACITY MINUTES	NUMBER OF PLATES

12 V. DOMESTIC AUTO BATTERIES

26/70	8 ⁷ / ₁₆	6 ⁷ / ₈	8 ¹ / ₄	1001	UT-60	60	12	575	100	72
22F	9 ¹ / ₂	6 ⁷ / ₈	8 ¹ / ₄	1005	22F-60	60	12	535	120	66
22F	9 ¹ / ₂	6 ⁷ / ₈	8 ¹ / ₄	1010	22F-50	50	12	450	90	54
22F	9 ¹ / ₂	6 ⁷ / ₈	8 ¹ / ₄	1015	22F-40	40	12	375	70	48
24	10 ¹ / ₄	6 ³ / ₄	8 ⁷ / ₈	1025	24-70	70	12	650	145	78
24	10 ¹ / ₄	6 ³ / ₄	8 ⁷ / ₈	1030	24-60	60	12	540	130	72
24	10 ¹ / ₄	6 ³ / ₄	8 ⁷ / ₈	1035	24-50	50	12	475	105	60
24	10 ¹ / ₄	6 ³ / ₄	8 ⁷ / ₈	1040	24-40	40	12	375	75	48
24F	10 ³ / ₄	6 ³ / ₄	8 ⁷ / ₈	1045	24F-70	70	12	650	145	78
24F	10 ³ / ₄	6 ³ / ₄	8 ⁷ / ₈	1050	24F-60	60	12	540	130	72
24F	10 ³ / ₄	6 ³ / ₄	8 ⁷ / ₈	1055	24F-50	50	12	475	105	60
24F	10 ³ / ₄	6 ³ / ₄	8 ⁷ / ₈	1060	24F-40	40	12	375	75	48
74	10 ¹ / ₄	7	8 ³ / ₄	1065	74-70	70	12	650	145	78
74	10 ¹ / ₄	7	8 ³ / ₄	1070	74-60	60	12	540	130	72
74	10 ¹ / ₄	7	8 ³ / ₄	1075	74-50	50	12	475	105	60
74	10 ¹ / ₄	7	8 ³ / ₄	1080	74-40	40	12	375	75	48
78	10 ¹ / ₄	7 ¹ / ₁₆	7 ³ / ₄	1081	78-60	60	12	540	120	72
27	12	6 ³ / ₄	8 ⁷ / ₈	1085	27-70	70	12	710	180	90
27	12	6 ³ / ₄	8 ⁷ / ₈	1090	27-50	50	12	535	130	66
27F	12 ³ / ₈	6 ³ / ₄	8 ⁷ / ₈	1100	27F-70	70	12	710	180	90
27F	12 ³ / ₈	6 ³ / ₄	8 ⁷ / ₈	1105	27F-50	50	12	535	130	66
26	8 ³ / ₁₆	6 ¹³ / ₁₆	7 ¹³ / ₁₆	1110	26-60	60	12	575	100	72
26	8 ³ / ₁₆	6 ¹³ / ₁₆	7 ¹³ / ₁₆	1111	26-50	50	12	450	85	60
26R	8 ³ / ₁₆	6 ¹³ / ₁₆	7 ¹³ / ₁₆	1112	26R-60	60	12	575	100	72
26R	8 ³ / ₁₆	6 ¹³ / ₁₆	7 ¹³ / ₁₆	1113	26R-50	50	12	450	85	60
34	10 ¹ / ₄	6 ¹³ / ₁₆	7 ¹³ / ₁₆	1114	34-60	60	12	540	120	72
70	8 ³ / ₁₆	7 ¹ / ₁₆	7 ³ / ₄	1115	70-60	60	12	575	100	72
70	8 ³ / ₁₆	7 ¹ / ₁₆	7 ³ / ₄	1120	70-50	50	12	450	85	60
62	8 ¹⁵ / ₁₆	6 ⁷ / ₁₆	8 ⁷ / ₈	1135	62-60	60	12	525	95	78
58	9 ⁷ / ₁₆	2 ¹ / ₄	7	1140	58-60	60	12	430	70	78
55	8 ⁵ / ₈	6 ¹ / ₁₆	8 ³ / ₈	1150	55-60	60	12	575	100	72
55	8 ⁵ / ₈	6 ¹ / ₁₆	8 ³ / ₈	1151	55-50	50	12	450	85	60
64	11 ¹¹ / ₁₆	6 ⁷ / ₁₆	8 ⁷ / ₈	1153	64-60	60	12	650	120	96

12 V. FOREIGN AUTO BATTERIES

41	11 ⁹ / ₁₆	6 ⁷ / ₈	6 ⁷ / ₈	1175	41-60	60	12	650	110	114
42	9 ¹ / ₂	6 ³ / ₄	6 ³ / ₄	1180	42-60	60	12	430	85	78
42	9 ¹ / ₂	6 ³ / ₄	6 ³ / ₄	1185	42-36	36	12	360	70	66
45	9 ⁷ / ₁₆	5 ¹ / ₂	8 ¹⁵ / ₁₆	1190	45-60	60	12	410	75	54
49	15	6 ⁷ / ₈	7 ⁹ / ₁₆	1195	49-60	60	12	620	155	126
48	11 ¹⁵ / ₁₆	6 ⁷ / ₈	7 ⁹ / ₁₆	1200	48-60	60	12	475	100	90

BCI GROUP	DIMENSIONS			PRODUCT NUMBER	BATTERY TYPE	SUGGESTED WARRANTY	CAPACITY			
	LENGTH	WIDTH	HEIGHT				VOLTS	AMPS CRANKING AMPS @ 0°F	RESERVE CAPACITY MINUTES	NUMBER OF PLATES

6 V. FOREIGN AUTO BATTERIES

17HF	7 ⁵ / ₁₆	6 ³ / ₄	8 ⁷ / ₈	1200	17-24	24	6	410	105	33
19L	8 ³ / ₈	6 ³ / ₄	7 ¹ / ₂	1225	19-36	36	6	450	135	39

COMMERCIAL BATTERIES

4D	21 ¹ / ₄	8 ³ / ₄	9 ³ / ₄	1240	4D-24	24	12	850	340	126
5D	13 ¹ / ₂	7	9 ¹ / ₄	1245	5D-24	24	6	875	360	75
7D	15 ⁷ / ₈	7	9 ¹ / ₄	1250	7D-24	24	6	975	400	87
8D	21 ¹ / ₄	11 ¹ / ₈	10 ³ / ₄	1256	8D-24	24	12	1000	400	150
8D	21 ¹ / ₄	11 ¹ / ₈	10 ³ / ₄	1255A	8D-30	30	12	1195	480	174
8B	21 ¹ / ₄	11 ¹ / ₈	10 ³ / ₄	1255B	8B-24	24	12	1195	480	174
24	10 ¹ / ₄	6 ³ / ₄	8 ⁷ / ₈	1260	24-24	24	12	400	125	66
24F	10 ³ / ₄	6 ³ / ₄	8 ⁷ / ₈	1265	24F-24	24	12	400	125	66
27	12	6 ³ / ₄	8 ⁷ / ₈	1270	27-24	24	12	420	130	78
27F	12 ³ / ₈	6 ³ / ₄	8 ⁷ / ₈	1275	27F-24	24	12	420	130	78
4	12 ³ / ₈	7	9 ¹ / ₄	1280	4-30	30	6	900	375	75
4	12 ³ / ₈	7	9 ¹ / ₄	1281	4-24	24	6	700	300	63
30HR	13 ¹ / ₂	6 ³ / ₄	9	1285	30H-24	24	12	700	210	96
31	13.093	7.016	9.530	1290A	31A-30	30	12	750	210	102
31	13.093	7.016	9.530	1290S	31S-30	30	12	750	210	102
31	13.093	7.016	9.530	1291A	31A-24	24	12	580	145	78
31	13.093	7.016	9.530	1291S	31S-24	24	12	580	145	78

FARM TRACTOR BATTERIES

1	9	7 ¹ / ₈	9 ¹ / ₈	1205	1-24	24	6	510	155	45
1	9	7 ¹ / ₈	9 ¹ / ₈	1305	1-30	30	6	540	210	51
2	10 ¹ / ₄	7 ¹ / ₈	9 ¹ / ₈	1210	2-24	24	6	540	210	51
2	10 ¹ / ₄	7 ¹ / ₈	9 ¹ / ₈	1315	2-30	30	6	600	240	57
22NF	9 ⁷ / ₁₆	5 ¹ / ₂	8 ¹ / ₂	1320	22NF-24	24	12	350	75	54
17TF	17 ¹ / ₁₆	6 ¹⁵ / ₁₆	7 ⁷ / ₈	1345	17TF-24	24	12	525	145	102
16TF	15 ⁷ / ₈	7 ¹ / ₁₆	11 ¹ / ₈	1350	16TF-24	24	12	550	200	78
3ET	19 ¹ / ₄	4 ¹ / ₄	9 ³ / ₄	1355	3ET-24	24	12	475	120	66
3EH	19 ¹ / ₄	4 ¹ / ₄	9 ³ / ₄	1360	3EH-24	24	6	825	340	63
4DLT	20	8 ¹ / ₈	7 ⁷ / ₈	1370	4DL-30	30	12	775	250	138
V1	8 ⁷ / ₈	6 ³ / ₄	9	1375	V1-24	24	8	390	105	44
V2	10 ³ / ₈	7	9	1380	V2-24	24	8	510	155	60

MOTORCYCLE BATTERIES

										Amp. Hr.
--	8 ³ / ₃₂	5 ⁷ / ₃₂	6 ¹ / ₂	1615	608	12	12	200	--	32
--	3 ²⁹ / ₃₂	2 ¹ / ₄	4 ²⁵ / ₃₂	1564	6N6	1	6	---	--	6
--	4 ²⁵ / ₃₂	2 ¹³ / ₃₂	5 ³ / ₁₆	1565	12N5	1	12	39	--	5
--	5 ¹³ / ₃₂	3	5 ⁹ / ₃₂	1570A	12N7-A	1	12	74	--	7
--	5 ¹³ / ₃₂	3	5 ⁹ / ₃₂	1570B	12N7-B	1	12	74	--	7
--	5 ¹³ / ₃₂	3	5 ¹⁷ / ₃₂	1575	12N9	1	12	85	--	9
--	5 ³ / ₈	3 ¹⁹ / ₃₂	6 ⁵ / ₃₂	1580	12N11	1	12	128	--	11
--	5 ⁵ / ₁₆	3 ⁷ / ₃₂	3 ¹¹ / ₃₂	1585	12N12	1	12	113	--	12
--	5 ⁵ / ₁₆	3 ⁹ / ₁₆	6 ⁹ / ₁₆	1590	12N14	1	12	128	--	14
--	6 ⁷ / ₈	3 ¹⁵ / ₁₆	6 ³ / ₃₂	1595	12N16	1	12	200	--	16
--	8 ¹ / ₈	3 ¹⁹ / ₃₂	6 ⁷ / ₁₆	1600	12N18	1	12	260	--	18
--	5 ³ / ₈	3 ¹⁹ / ₃₂	5 ³ / ₄	1605	CB10L	1	12	160	--	10
--	5 ⁵ / ₁₆	3 ⁹ / ₁₆	6 ⁹ / ₁₆	1610	CB14L	1	12	195	--	14
--	6 ⁷ / ₈	3 ¹⁵ / ₁₆	6 ³ / ₃₂	1640	CB16L	1	12	200	--	16
--	8 ¹ / ₈	3 ¹⁹ / ₃₂	6 ⁷ / ₁₆	1643	CB18L	1	12	260	--	18

BCI GROUP	DIMENSIONS			PRODUCT NUMBER	BATTERY TYPE	SUGGESTED WARRANTY	CAPACITY			
	LENGTH	WIDTH	HEIGHT				VOLTS	AMPS CRANKING AMPS @ 0°F	RESERVE CAPACITY MINUTES	NUMBER OF PLATES

FORKLIFT BATTERIES

29NF	12 ¹ / ₂	5 ¹ / ₂	8 ⁷ / ₈	1155	29NF-24	24	12	380	85	66
3EE	19 ¹ / ₄	4 ¹ / ₄	8 ⁷ / ₈	1160	3EE-24	24	12	345	110	54
53K	13	4 ¹ / ₂	8 ¹ / ₄	1165	53-24	24	12	295	65	42
60	13	6 ¹ / ₄	8 ⁷ / ₈	1170	60-24	24	12	430	90	54
2E	19 ¹ / ₄	4	9 ¹ / ₈	1215	2E-24	24	6	550	175	51

UTILITY, MARINE BATTERIES

U1R	7 ³ / ₄	5 ¹ / ₈	7 ⁵ / ₁₆	1400	U1R-24	24	12	230	45	48
U1	7 ³ / ₄	5 ¹ / ₈	7 ⁵ / ₁₆	1403	U1-24	24	12	230	45	48
U1	7 ³ / ₄	5 ¹ / ₈	7 ⁵ / ₁₆	1406	U1-12M	12	12	230	32	42
U1	7 ³ / ₄	5 ¹ / ₈	7 ⁵ / ₁₆	1409	U1-12	12	12	210	35	42
U2	6 ³ / ₈	5 ¹ / ₈	7 ¹ / ₄	1630	U2-12	12	12	130	20	42
LM33	9 ³ / ₄	5 ¹ / ₈	7 ¹ / ₄	1412	33-12	12	12	250	45	66
MAR	10 ¹ / ₄	6 ³ / ₄	8 ⁷ / ₈	1415	MAR-40	40	12	425	90	54
MAR	10 ³ / ₄	6 ³ / ₄	8 ⁷ / ₈	1418	MAR-50	50	12	525	110	66
MAR	10 ³ / ₄	6 ³ / ₄	8 ⁷ / ₈	1421	MAR-60	60	12	650	140	78
DEEP CYCLE	11 ³ / ₈	6 ³ / ₄	9 ³ / ₄	1424	27T-36 85 Amp.	36	12	20 amps 3.5 hours	2.5 amps 33.2 hours	66
DEEP CYCLE	13 ³ / ₁₆	6 ³ / ₄	9 ³ / ₄	1427	27T-36 105 Amp.	36	12	20 amps 4.3 hours	2.5 amps 39.6 hours	78

GOLF CART, SCRUBBER, SWEEPER BATTERIES

20 Hr. Rate

GC2	10 ¹ / ₄	7 ¹ / ₈	10 ¹ / ₂	1430A	701 A/T	12	6	75 amps 90 min	190	57
GC2	10 ¹ / ₄	7 ¹ / ₈	10 ¹ / ₂	1430C	701 C/T	12	6	75 amps 90 min	190	57
GC2	10 ¹ / ₄	7 ¹ / ₈	10 ¹ / ₂	1435A	702L A/T	12	6	75 amps 110 min	220	57
GC2	10 ¹ / ₄	7 ¹ / ₈	10 ¹ / ₂	1435C	702L C/T	12	6	75 amps 110 min	220	57
GC2H	10 ¹ / ₄	7 ¹ / ₈	11 ¹ / ₂	1440A	702H A/T	12	6	75 amps 110 min	220	51
GC2H	10 ¹ / ₄	7 ¹ / ₈	10 ¹ / ₂	1440C	702H C/T	12	6	75 amps 110 min	220	51
--	11 ⁵ / ₈	7	11	1445A	703 A/T	12	6	75 amps 115 min	225	57
--	11 ⁵ / ₈	7	11	1445C	703 C/T	12	6	75 amps 115 min	225	57
--	11 ⁵ / ₈	7	11	1445F	703 F/T	12	6	75 amps 115 min	225	57
--	12 ¹ / ₄	7	14 ¹ / ₄	1450A	704 A/T	12	6	75 amps 116 min	325	57
--	12 ¹ / ₄	7	14 ¹ / ₄	1450C	704 C/T	12	6	75 amps 116 min	325	57
--	11 ³ / ₄	7	12	1455A	705 A/T	12	6	75 amps 125 min	245	57
--	11 ³ / ₄	7	12	1455F	705 F/T	12	6	75 amps 125 min	245	57

BCI GROUP	DIMENSIONS			PRODUCT NUMBER	BATTERY TYPE	SUGGESTED WARRANTY	CAPACITY			
	LENGTH	WIDTH	HEIGHT				VOLTS	AMPS CRANKING AMPS @ 0°F	RESERVE CAPACITY MINUTES	NUMBER OF PLATES
20 Hr. Rate										
--	13½	6¾	11⅝	1465A	711 A/T	12	12	25 amps 215 min	145	66
--	11¾	7	16⅞	1460F	706 F/T	12	6	75 amps 164 min	345	61
--	15⅜	7	14⅞	1470A	712 A/T	12	12	35 amps 202 min	185	66
--	17⅞	7⅞	9¼	1257	714	12	12	35 amps 115 min	110	102

MINE CAR BATTERIES

								6 Hr. Rate	20 Hr. Rate	
--	20 ⁷ / ₁₆	10 ¹⁵ / ₁₆	11 ³ / ₄	1472	720	12	12	210	240	138
--	20 ³ / ₈	10 ¹⁵ / ₁₆	14	1473	721	12	12	250	340	114
--	20 ¹ / ₄	10 ¹⁵ / ₁₆	15 ¹ / ₄	1474	722	12	12	315	375	114
--	20 ³ / ₈	10 ¹⁵ / ₁₆	15 ¹ / ₄	1475	723	12	12	355	400	114

LOCOMOTIVE, MARINE BATTERIES

								8 Hr. Rate	6 Hr. Rate	
--	18 ¹ / ₂	7 ¹ / ₂	9 ⁵ / ₈	1515	813	12	8	111	105	52
--	21 ¹ / ₂	7 ¹ / ₂	9 ⁵ / ₈	1520	815	12	8	130	123	60
--	21 ¹ / ₂	7 ¹ / ₂	9 ⁵ / ₈	1525	817	12	8	150	142	68
--	24 ¹ / ₂	7 ¹ / ₂	9 ⁵ / ₈	1530	819	12	8	167	158	76
--	27 ¹ / ₂	7 ¹ / ₂	9 ⁵ / ₈	1535	821	12	8	187	177	84
--	27 ¹ / ₂	7 ¹ / ₂	9 ⁵ / ₈	1540	823	12	8	205	194	92
--	26 ⁷ / ₈	8 ¹ / ₂	9 ⁵ / ₈	1545	825	12	8	224	212	100

TRANSIT CAR BATTERIES

--	25	7 ⁵ / ₈	10 ¹ / ₂	1555C	850 (16V)	12	16	750	350	88
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ORDNANCE BATTERIES

6TN	11	10 ³ / ₈	9	1635	6TN	12	12	540	175	126
2HN	10 ¹ / ₄	5 ³ / ₈	9	1558	2HN	12	12	225	55	54

LIMITED WARRANTY AND ADJUSTMENT POLICY

We build our batteries to provide a long, useful starting life. Thicker plates made from top quality oxide, superior heavy duty separators, and close product supervision make our batteries an outstanding American Product.

...BUT THE BEST BATTERY CAN BECOME DISCHARGED AT NO FAULT OF THE BATTERY...AND A STORAGE BATTERY SHOULD NOT BE REPLACED IF SIMPLY DISCHARGED.

One of the prime advantages of the storage battery is that IT CAN BE SATISFACTORILY RESTORED TO GOOD SERVICE BY RECHARGING when it may become discharged. You render a real service to the product and your customer when a simply discharged battery is properly handled. The cost is usually much less and the car owner will be better pleased with the product and your service.

1. All of Our Batteries are warranted to be free from defects in material and workmanship. Should a defect become apparent within 120 days the battery will be replaced or repaired at the manufacturer's option free of charge, except for cost of transportation of the battery. After 120 days, the battery will be adjusted on a pro rata basis.
2. The adjustment pro rata amount may be found by dividing the current general trade price of the battery by the number of months in the warranty period, then multiplying by the number of months the customer has had the battery.
3. The warranty does not apply to batteries that: are only discharged, have broken containers, covers, or terminals, have been frozen, overcharged or sulphated, have foreign material or additives put in the electrolyte, or when evidence of neglect or abuse is present.

2.
(Front Page)

CITY OF FORT WAYNE

DEPARTMENT OF PURCHASING
ONE MAIN STREET - ROOM 350
FORT WAYNE, INDIANA 46802

BID REFERENCE # 813

DATE February 23, 1987

DUE DATE Thursday, March 12, 1987 at 10:15 A.M.

Department receiving bid items City Utilities Garage
1705 S. Lafayette Street
Fort Wayne, Indiana 46803

Bid Bond Required NO YES X AMOUNT \$500.00

Performance Bond Required NO X YES AMOUNT

Affirmative Action-On file with the City of Fort Wayne

Attached to this document

Prompt payment discounts will be allowed as follows: NET %
if paid within 30 days.

The City of Fort Wayne is exempt from Federal excise and Indiana State Sale Tax. The City's Indiana Sales Tax Exemption Certificate number is 356-001-255 0013, prices should not include these taxes.

The execution hereof by the bidder is acceptance of all terms and conditions herein and in that regard the bidder agrees to be bound by same and be bound to the amount of his/her bid for a period of sixty (60) days.

**FORT
WAYNE
WHERE AMERICA
WORKS**

Anthony M. [Signature]
Name of Company

by Richard R. Beck Agent
(signature)

Address 101 S. Clinton St.

City FW Ind.

BID, OFFER OR PROPOSAL

on

MATERIAL OR MATERIALS, EQUIPMENT, GOODS OR SUPPLIES

Fort Wayne, Allen County, Indiana 11th day of March, 1987

To Board of Works Purchasing Dept. City of Fort Wayne
State name official position and municipality

Pursuant to notices given, the undersigned proposes to furnish the material or materials, equipment, goods or supplies as per said notices and specifications now on file in the office of.....

Carol Offerle, Director of Purchasing, City of Fort Wayne
state name official position and municipality

and as per copy thereof, hereto attached, or as described herein for the following amounts:

(State the class or item number or an exact description of the material or materials, equipment, goods or supplies to be furnished and amount of bid on each article.)

Class or Item	Quantity	Unit	Quality — Description	Unit Price	Amount
PART #	Cold chack amps		Filled — Unfilled		
BH 4	775		✓	\$ 57.00	
BH 4D	885		✓	\$ 106.00	
BH 8D	1155		✓	\$ 128.00	
BX 74	525		✓	\$ 45.00	
BX 27	540		✓	\$ 45.00	
BX 27F	540		✓	\$ 45.00	
BX 24	525		✓	\$ 45.00	
BX 24F	525		✓	\$ 45.00	
BH 29NF	425		✓	\$ 45.00	
BH 31A	655		✓	\$ 68.00	
BX 22F	400		✓	\$ 40.00	
BH 3EE	420		✓	\$ 45.00	
BH 27A	715		✓	\$ 89.00	
BH 41	215		✓	\$ 31.00	
BX 64A	535		✓	\$ 70.00	
BX 71	455		✓	\$ 44.00	
BR 56	505		✓	\$ 46.00	
BH 2	575		✓	\$ 44.00	
BX 70	525		✓	\$ 44.00	
See attached Battery Spec Sheets					

TESTED TOUGH BATTERY SUGGESTED USER EXCHANGE PRICE LIST

MOTORCRAFT PASSENGER CAR AND LIGHT TRUCK BATTERIES

BATTERY PART NO.	MONTHS OF ADJ. SERVICE	AVAIL-ABILITY WET/DRY	COLD CRANKING AMPS (@ 0°)	SUGGESTED PRICES USER EXCH.
BA-24	40	W/D	340	47.56
BA-24F	40	W/D	340	47.56
BA-26	40	W	370	45.90
BA-26R	40	W	370	45.90
BA-56	40	W	370	45.90
BA-70	40	W	370	45.90
BA-74	40	W/D	340	47.56
BR-21	50	W/D	340	57.75
BR-22F	50	W/D	340	47.56
BR-24	50	W/D	455	54.36
BR-24F	50	W/D	455	54.36
BR-26	50	W	465	52.65
BR-26R	50	W	465	52.65
BR-42	50	W/D	385	62.85
BR-42F	50	W	385	73.05
BR-45	50	W/D	450	64.55
BR-56*	50	W/D	505	64.55
BR-56A	50	W	450	52.65
BR-58*	50	W	410	57.75
BR-61	50	W	310	69.90
BR-62	50	W	380	56.06
BR-70	50	W	465	52.65
BR-71	50	W/D	400	52.65
BR-74	50	W/D	455	54.36
BX-22F	60	W/D	400	56.06
BX-24	60	W/D	525	63.70
BX-24F	60	W/D	525	63.70
BX-24FA*	60	W	500	79.10
BX-26	60	W	525	62.00
BX-26R	60	W	525	62.00
BX-27	60	W/D	540	63.70
BX-27F	60	W/D	540	63.70
BX-33	60	W	1050	166.46
BX-41	60	W	525	84.90
BX-56	60	W	535	62.00
BX-58*	60	W	410	74.73
BX-58A*	60	W	450	82.39
BX-58B	60	W	475	76.45

*No Longer Available From Factory.

MOTORCRAFT PASSENGER CAR AND LIGHT TRUCK BATTERIES (CONT'D)

BX-58C	60	W	540	84.08
BX-63	60	W	450	78.55
BX-64	60	W	475	91.72
BX-64A	60	W	535	97.67
BX-65	60	W	850	135.88
BX-70	60	W	525	62.00
BX-71	60	W/D	455	62.00
BX-72	60	D	490	95.97
BX-74	60	W/D	525	63.70

MOTORCRAFT HEAVY DUTY TRUCK, FARM, COMMERCIAL AND SPECIALTY BATTERIES

BATTERY PART NO.	MONTHS OF ADJ. SERVICE	AVAIL-ABILITY WET/DRY	COLD CRANKING AMPS (@ 0°)	SUGGESTED PRICES USER EXCH.
HEAVY DUTY COMMERCIAL — 12 VOLT				
BH-4D	30	D	885	147.77
BH-8D	30	D	1155	178.35
BH-27A	30	W	715	123.99
BH-29H	30	W	655	95.10
BH-31*	30	W	625	90.88
BH-31A	30	W	655	95.10
HEAVY DUTY COMMERCIAL — 6 VOLT				
BH-1	30	D	545	59.45
BH-2	30	D	575	61.11
BH-4	30	D	775	79.85
BH-7D	30	D	835	95.10
FARM AND COMMERCIAL — 12 VOLT				
BH-3EE	30	D	420	62.85
BH-3ET	30	D	510	79.85
BH-4DLT	30	D	815	156.27
BH-29NF	30	D	425	62.85
FARM AND COMMERCIAL — 6 VOLT				
BH-3EH	30	W/D	885	82.39
LIGHT UTILITY, RV, MARINE — 12 VOLT				
BH-22NF	30	D	365	48.41
BH-24M	30	W	515	78.15
BH-U1	20	D	215	44.16
GOLF CART AND ELECTRIC VEHICLE — 6 VOLT				
BH-GC2	20	W	100(1)	93.42

(1) 100 minutes @ 75 amps.

Motorcraft

If a failure occurs within the warranty period, the replacement cost based on the Motorcraft table is shown on the battery label.

ANTHONY MOTOR PARTS
101 South Clinton Street
Fort Wayne, IN 46802
219-423-1371

... a percentage of the replacement cost. The adjustment...

Motorcraft **QUALITY**
PARTS
FOR ALL MAKES OF CARS AND TRUCKS

MOTORCRAFT INTERCHANGE
Previous Line to Tested Tough Line

REPLACED BATTERY PART NO.	MOTORCRAFT TESTED TOUGH PART NO.	REPLACED BATTERY PART NO.	MOTORCRAFT TESTED TOUGH PART NO.	REPLACED BATTERY PART NO.	MOTORCRAFT TESTED TOUGH PART NO.
MFR-21	BR-21	G-24F	BX-24F	R-43	None
MF-22FC	BX-22F	G-24M	BH-24M	R-54	BR-56
MFR-22FC	BR-22F	G-27C	BX-27	R-55	BR-56
MF-24C	BX-24	G-27F	BX-27F	R-56	BR-56
MFR-24C	BR-24	G-72	BX-71	R-60	None
MF-24F	BX-24F	G-74	BX-74	R-64	BX-64A
MF-24FA	BX-24F	GN-1	BH-1	R-72	BR-71
MFR-24F	BR-24F	GN-2	BH-2	R-74	BR-74
MF-27C	BX-27	GN-2E	None	R-77	BX-74
MF-27CA	BX-27	GN-22FC	BR-22F	V-4	BH-4
MFR-27C	BX-27	GN-24C	BA-24	1HG	BH-1
MF-27F	BX-27F	GN-24F	BA-24F	1LS	None
MFR-27F	BX-27F	GN-74	BA-74	1MS	BH-1
MF-31	BH-29H	LU-7	BH-U1	2E	None
MF-31A	BH-29H	LU-9	BH-U1	2GC	BH-GC2
MF-31AS	BH-31A	R-1	BH-1	2GCA	BH-GC2
MF-31S	BH-31A	R-2	BH-2	2HG	BH-2
MF-57	BX-58B	R-3	None	2HN	None
MF-58	BX-58B	R-4	BH-4	2LG	None
MF-58A	BX-58B	R-22FC	BR-22F	3EE	BH-3EE
MF-61	BR-61	R-22FCA	BX-22F	3EHA-172	BH-3EH
MF-62	BR-62	R-23	BR-24F	3HE	BH-3ET
MF-63	BX-63	R-24C	BA-24	4DA	BH-4D
MF-64	BX-64A	R-24CA	BR-24	4DLT	BH-4DLT
MF-64A	BX-64A	R-24CB	BR-24	4EH	None
MF-71	BR-71	R-24F	BR-24F	5DA	None
MFR-71	BR-71	R-24FA	BX-24F	7DA	BH-7D
MFR-73	BX-71	R-27C	BX-27	8DA	BH-8D
MF-74	BX-74	R-27CA	BX-27	8DAT	None
MFR-74	BR-74	R-27F	BX-27F	8DB	BH-8D
MF-27CA	BH-27A	R-27FA	BX-27F	10HN	BH-22NF
E-42	BR-42	R-29HR	BX-27F	16TF	None
E-42F	BR-42F	R-29NF	BH-29NF	17TF	None
G-22FC	BX-22F	R-30H-95	BH-29H		
G-24C	BX-24	R-32N	None		

MOTORCRAFT BATTERY LIMITED WARRANTY

FOR "TESTED TOUGH" BATTERIES

label shown below will be attached to Motorcraft "Tested Tough" batteries. Batteries with this label are warranted by Ford Motor Company to the consumer. The terms and conditions of the warranty are shown on the label.

When a Motorcraft battery is purchased, it is important that the tear-off portion of the label is removed by the owner or installer. The owner's name, address, and date of purchase are to be filled in and the card should be attached to the owner's proof-of-purchase invoice and placed in the vehicle glove compartment. Both items must be furnished in case of subsequent battery failure.

CLAIM HANDLING PROCEDURES FOR DEALERS, WHOLESALEERS AND FLEETS

Batteries presented for warranty must be properly tested and recharged if necessary to determine whether they are serviceable. Batteries that are discharged-only or that have been stored without use or recharging in distributor/jobber inventory are not eligible for replacement under warranty.

When a battery is not serviceable, the owner is to receive as a replacement an equivalent Motorcraft battery on a gratis (no cost) or pro rata basis as described on the label. An example of determining the owner's cost for a pro rata claim - more than three months of service - is shown below.

BX-58B — 16 months of service.

Owner's Percentage Replacement Cost (on battery label)		Present Published User Exchange Price	=	Consumer Replacement Pro Rata Cost
33%	X	\$76.45		\$25.23

This example reflects a consumer replacement pro rata adjustment. For a fleet or commercial battery, the fleet/commercial percentage replacement cost and published price should be used.

Dealers, Wholesalers and Fleets are to submit supporting documents to Motorcraft Warehouse Distributors, National Accounts and Special Market Accounts to obtain warranty on Motorcraft batteries. These Motorcraft accounts will in turn submit claims to Ford Parts and Service Division for reimbursement.

Motorcraft		PART NO. BX-58B	ADJ. PERIOD 60 MO.																																																																						
BATTERY LIMITED WARRANTY																																																																									
<p>This Motorcraft battery is warranted by Ford Motor Co. to the original retail purchaser for the time shown above when it is used in a private passenger car or light truck. If the battery fails to hold a charge due to a defect in material or workmanship it should be returned to a Motorcraft retailer or wholesaler. THIS CARD AND YOUR DATED PURCHASE INVOICE ARE REQUIRED FOR WARRANTY REPLACEMENT.</p>																																																																									
Name _____		Date Purchased _____ (Date Installed for Service Fleet)																																																																							
Address _____		City _____ State _____																																																																							
<p>If a failure occurs, the owner will pay a percentage of the replacement cost based on the Motorcraft user exchange price (fleet price for fleet users) at the time of the adjustment. Shown below are the adjustment tables for privately owned passenger cars and light trucks and fleet, farm, marine and other commercial vehicles.</p>																																																																									
<table border="1" style="width: 100%; font-size: small;"> <tr> <th>Adjustment Table</th> <th>0-3</th><th>4-5</th><th>6-10</th><th>11-15</th><th>16-20</th><th>21-25</th><th>26-30</th><th>31-35</th><th>36-40</th><th>41-45</th><th>46-50</th><th>51-55</th><th>56-60</th> </tr> <tr> <td>Mo. s After Purch</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Owner's Percentage Replacement Cost</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Car/Lt. Truck</td> <td>0%</td><td>8%</td><td>17%</td><td>25%</td><td>33%</td><td>42%</td><td>50%</td><td>59%</td><td>67%</td><td>75%</td><td>84%</td><td>92%</td><td>97%</td> </tr> <tr> <td>Fleet/Commercial</td> <td>0%</td><td>16%</td><td>35%</td><td>50%</td><td>67%</td><td>84%</td><td>97%</td><td colspan="6">*Farm, Marine & Other Commercial</td> </tr> </table>				Adjustment Table	0-3	4-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	Mo. s After Purch														Owner's Percentage Replacement Cost														Car/Lt. Truck	0%	8%	17%	25%	33%	42%	50%	59%	67%	75%	84%	92%	97%	Fleet/Commercial	0%	16%	35%	50%	67%	84%	97%	*Farm, Marine & Other Commercial					
Adjustment Table	0-3	4-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60																																																												
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Car/Lt. Truck	0%	8%	17%	25%	33%	42%	50%	59%	67%	75%	84%	92%	97%																																																												
Fleet/Commercial	0%	16%	35%	50%	67%	84%	97%	*Farm, Marine & Other Commercial																																																																	
<p>IMPORTANT: Further Warranty information is on the reverse side of this card. NOTE: Detach and KEEP with your purchase invoice</p>																																																																									
<p>DANGER-EXPLOSIVE CAN CAUSE BLINDNESS OR SEVERE INJURY. PROTECT EYES. SPARKS, FLAMES, CIGARETTES CAN CAUSE EXPLOSION: TOOLS AND CABLE CLAMPS CAN CAUSE SPARKS. DO NOT USE WITHOUT INSTRUCTION. KEEP VENT CAPS TIGHT AND LEVEL.</p> <p>ACID-POISON CAUSES SEVERE BURNS. CONTAINS SULFURIC ACID. IN EVENT OF CONTACT, FLUSH WITH WATER AND SEE A DOCTOR.</p> <p>KEEP OUT OF REACH OF CHILDREN</p>			<p>BX-58B</p> <p>475</p> <p>90</p> <p>SERIAL NUMBER A 411684</p>																																																																						

The Motorcraft Limited Battery Warranty does not cover:

1. Failure as a result of use in applications other than those recommended in Motorcraft catalogs
2. Damage to case, cover or terminals caused by abuse, negligence, freezing or improper installation
3. Cost of recharging or use of a rental battery
4. Labor to remove and replace battery in the vehicle
5. To the extent allowed by law, loss of time, inconvenience, loss of use of the vehicle or other consequential damages

THERE IS NO OTHER EXPRESS WARRANTY ON MOTORCRAFT BATTERIES

ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS IS LIMITED TO THE DURATION OF THE WRITTEN WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF CONSEQUENTIAL OR INCIDENTAL DAMAGES OR HOW LONG AN IMPLIED WARRANTY LASTS. SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Inquiries concerning this warranty should be directed to:

Warranty Administration, Ford Parts and Service Division
3000 Schaefer Road Dearborn, Michigan 48121

BATTERY SPECIFICATION CHART

BCI GROUP SIZE	MOTORCRAFT TESTED TOUGH PART NO.	PLATES PER CELL	COLD CRANKING AMPS (AT 0°F)	RESERVE CAPACITY (MINUTES)	MAXIMUM DIMENSIONS INCHES (MILLIMETERS)			APPROX. WEIGHT (LBS.)		ELECTROLYTE REQUIRED QTS.
					LENGTH	WIDTH	HEIGHT	DRY	WET	
TESTED TOUGH SUPER HEAVY DUTY/TESTED TOUGH PLUS-60 SERIES										
12 Volt Post Terminals										
22F	BX-22F	9	400	86	9-13/32 (238.8)	6-27/32 (173.8)	8-3/16 (207.5)	23	31	3.9
24	BX-24	12	525	120	10-1/4 (260.6)	6-27/32 (173.8)	8-11/16 (220.2)	29	41	4.7
24F	BX-24F	12	525	120	10-3/4 (272.3)	6-27/32 (173.8)	8-11/16 (220.2)	29	41	4.7
24F	BX-24FA*	13	500	120	10-3/4 (273.1)	6-7/8 (174.2)	8-15/16 (227.1)	—	43	—
26	BX-26	11	525	82	8 (203.2)	6-25/32 (172.2)	7-3/4 (196.8)	30	13.6	—
26R	BX-26R	11	525	82	8 (203.2)	6-25/32 (172.2)	7-3/4 (196.8)	30	13.6	—
27	BX-27	12	540	126	12-5/32 (308.6)	6-27/32 (173.4)	8-21/32 (219.5)	31	44	5.8
27F	BX-27F	12	540	126	12-1/2 (316.7)	6-27/32 (173.8)	8-21/32 (219.5)	31	44	5.8
33	BX-33	22	1050	170	13-5/16 (338.1)	6-17/32 (158.0)	9-1/2 (241.3)	—	64	—
41	BX-41	15	525	92	11-17/32 (292.4)	6-7/8 (174.3)	6-27/32 (173.8)	—	36	—
56	BX-56	13	535	86	10 (253.5)	6-1/32 (152.9)	8-1/4 (209.6)	35	15.9	—
58	BX-58A*	13	450	90	9-7/16 (239.0)	7-7/32 (183.0)	6-31/32 (176.7)	—	36	—
58	BX-58B	13	475	90	9-7/16 (239.0)	7-7/32 (183.0)	6-31/32 (176.7)	—	32	—
58	BX-58C	13	540	100	9-7/16 (239.0)	7-7/32 (183.0)	6-31/32 (176.7)	—	35	—
63	BX-63	13	450	90	10-3/16 (257.7)	6-3/8 (161.5)	8-7/8 (225.0)	—	40	—
64	BX-64	13	475	120	11-9/16 (295.7)	6-3/8 (161.5)	8-7/8 (225.0)	—	46	—
64	BX-64A	15	535	120	11-9/16 (295.7)	6-3/8 (161.5)	8-7/8 (225.0)	—	46	—
65	BX-65	18	850	165	11-1/8 (282.5)	7-3/16 (182.6)	7-9/16 (192.1)	—	52	—
12 Volt Side Terminals										
70	BX-70	11	525	82	8 (203.2)	7-5/32 (181.4)	7-15/32 (189.2)	31	14.1	—
71	BX-71	10	455	76	8 (203.0)	7-5/32 (181.6)	8-3/16 (207.6)	24	32	3.2
72	BX-72	11	490	102	9-1/16 (230)	7-1/16 (179)	8-1/4 (210)	27	—	3.2
74	BX-74	12	525	120	10-1/4 (260.5)	7-1/4 (184.2)	8-11/32 (211.3)	30	41	4.7
TESTED TOUGH PREMIUM HEAVY DUTY/TESTED TOUGH PLUS-50 SERIES										
12 Volt Post Terminals										
21	BR-21	8	340	63	8 (203.0)	6-25/32 (172.2)	8-19/32 (218.2)	20	28	3.4
22F	BR-22F	8	340	68	9-13/32 (238.8)	6-27/32 (173.8)	8-3/16 (207.5)	21	31	4.0
24	BR-24	10	455	100	10-1/4 (260.6)	6-27/32 (173.8)	8-11/16 (220.2)	26	38	5.0
24F	BR-24F	10	455	100	10-3/4 (272.3)	6-27/32 (173.8)	8-11/16 (220.2)	26	38	5.0
26	BR-26	10	465	76	8 (203.2)	6-25/32 (172.2)	7-3/4 (196.8)	29	13.2	—
26R	BR-26R	10	465	76	8 (203.2)	6-25/32 (172.2)	7-3/4 (196.8)	29	13.2	—
42	BR-42	11	385	71	9-21/32 (244.6)	6-7/8 (174.8)	6-21/32 (169.2)	22	29	3.1
42F	BR-42F	11	385	71	9-13/16 (248.9)	6-7/8 (174.8)	7-1/4 (183.9)	—	29	—
45	BR-45	12	450	80	9-13/32 (233.7)	5-15/32 (138.9)	8-3/4 (222.2)	24	32	3.2
56	BR-56*	13	505	86	10 (253.5)	6-1/32 (152.9)	8-1/32 (211.1)	27	35	4.3
56	BR-56A	11	450	75	10 (253.5)	6-1/32 (152.9)	8-1/4 (209.6)	32	14.5	—
58	BR-58	11	410	75	9-7/16 (239.0)	7-7/32 (183.0)	6-31/32 (176.7)	—	29	—
61	BR-61	9	310	60	7-19/32 (192.2)	6-3/8 (161.5)	8-7/8 (225.0)	—	29	—
62	BR-62	11	380	75	8-15/16 (226.4)	6-3/8 (161.5)	8-7/8 (225)	—	34	—
12 Volt Side Terminals										
70	BR-70	10	465	76	8 (203.2)	7-5/32 (181.4)	7-15/32 (189.2)	29	13.2	—
71	BR-71	9	400	78	8 (203.0)	7-5/32 (181.6)	8-3/16 (207.6)	22	30	3.3
74	BR-74	10	455	100	10-1/4 (260.5)	7-1/4 (184.2)	8-11/32 (211.3)	26	38	5.0
TESTED TOUGH PREMIUM/TESTED TOUGH PLUS-40 SERIES										
12 Volt Post Terminals										
24	BA-24	8	340	80	10-1/4 (260.6)	6-27/32 (173.8)	8-11/16 (220.2)	23	35	5.2
24F	BA-24F	8	340	80	10-3/4 (272.3)	6-27/32 (173.8)	8-11/16 (220.2)	23	35	5.2
26	BA-26	8	370	60	8 (203.2)	6-25/32 (172.2)	7-3/4 (196.8)	27	12.2	—
26R	BA-26R	8	370	60	8 (203.2)	6-25/32 (172.2)	7-3/4 (196.8)	27	12.2	—
56	BA-56	9	370	60	10 (253.5)	6-1/32 (152.9)	8-1/4 (209.6)	30	13.6	—
12 Volt Side Terminals										
70	BA-70	8	370	60	8 (203.2)	7-5/32 (181.4)	7-15/32 (189.2)	27	12.2	—
74	BA-74	8	340	80	10-1/4 (260.5)	7-1/4 (184.2)	8-11/32 (211.3)	23	36	5.2

*No Longer Available From Factory.

BATTERY SPECIFICATION CHART (Cont'd)

Motorcraft QUALITY
PARTS
FOR ALL MAKES OF CARS AND TRUCKS

BCI GROUP SIZE	MOTORCRAFT TESTED TOUGH PART NO.	PLATES PER CELL	COLD CRANKING AMPS (AT 0°F)	RESERVE CAPACITY (MINUTES)	MAXIMUM DIMENSIONS INCHES (MILLIMETERS)			APPROX. WEIGHT (LBS.)		ELECTRO- LYTE REQUIRED
					LENGTH	WIDTH	HEIGHT	DRY	WET	QTS.
TESTED TOUGH HEAVY DUTY COMMERCIAL BATTERIES										
12 Volt										
4D	BH-4D	21	885	260	20-3/4 (527.0)	8-3/4 (222.3)	9-9/16 (242.9)	79	—	9.4
8D	BH-8D	29	1155	390	20-3/4 (527.0)	11 (279.4)	9-9/16 (242.9)	102	—	13.4
27	BH-27A	16	715	150	12-5/32 (308.6)	6-27/32 (173.4)	8-21/32 (219.5)	—	50	—
29H/30H	BH-29H	16	655	162	13 (329.4)	6-25/32 (172.2)	9-3/8 (237.5)	—	56	—
31	BH-31A	16	655	162	13 (329.4)	6-25/32 (172.2)	9-3/8 (237.5)	—	56	—
6 Volt										
1	BH-1	15	545	155	8-15/16 (226.5)	6-27/32 (173.3)	8-25/32 (222.8)	23	—	4.6
2	BH-2	16	575	174	10-9/32 (260.9)	7 (177.7)	9-3/32 (230.9)	25	—	5.3
4	BH-4	23	775	260	12-5/8 (320.4)	7 (177.7)	9-1/8 (231.3)	34	—	6.5
7D	BH-7D	27	935	360	16-8/32 (411.3)	7-1/32 (178.2)	9 (228.6)	49	—	6.5
TESTED TOUGH FARM, COMMERCIAL & SPECIALTY BATTERIES										
12 Volt										
3EE	BH-3EE	11	420	98	19-9/32 (489.7)	4-9/32 (108.7)	8-21/32 (219.2)	35	—	4.6
3ET	BH-3ET	13	510	145	19-9/32 (489.7)	4-9/32 (108.7)	9-19/32 (243.1)	45	—	5.2
4DLT	BH-4DLT	29	815	265	20 (507.3)	8-3/16 (207.5)	8 (203.2)	83	—	7.7
22NF	BH-22NF	10	365	68	9-13/32 (233.8)	5-15/32 (138.9)	8-3/4 (222.3)	21	—	3.4
24	BH-24M	13	515	128	11-1/8 (282.5)	6-27/32 (173.5)	9-5/32 (232.4)	—	44	—
29NF	BH-29NF	13	425	100	13 (329.4)	5-1/2 (140.7)	8-15/16 (226.8)	28	—	5.0
U1	BH-U1	9	215	45	7-25/32 (197.3)	5-3/16 (131.7)	7-1/8 (180.2)	17	—	1.8
6 Volt										
3EH	BH-3EH	25	885	310	19-9/32 (489.7)	4-9/32 (108.7)	9-25/32 (248.4)	43	—	5.6
GC2	BH-GC2	19	100 Min.@75A	—	10-3/8 (265.3)	7-3/16 (182.3)	10-1/2 (266.7)	—	60	—

NOTE: THE BATTERIES IN THE FOLLOWING SECTION HAVE BEEN REPLACED BY THE TESTED TOUGH BATTERY LINE. PRICES AND SPECIFICATIONS ARE PROVIDED HERE FOR REFERENCE ONLY.

NOTE: THE BATTERIES IN THE FOLLOWING SECTION HAVE BEEN REPLACED BY THE TESTED TOUGH BATTERY LINE. PRICES AND SPECIFICATIONS ARE PROVIDED HERE FOR REFERENCE ONLY.

MOTORCRAFT BATTERY USER EXCHANGE PRICE SCHEDULE

MAINTENANCE FREE BATTERIES

BCI GROUP	COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED	
				LIST	EXCH.
60 Months					
22F	400	85	MF-22FC	74.05	71.05
24C	500	115	MF-24C	86.05	83.05
24F	500	115	MF-24F	86.05	83.05
27C	560	140	MF-27C	88.05	85.05
27C	700	150	MF-27CA	113.05	110.05
27F	560	140	MF-27F	88.05	85.05
57	310	60	MF-57	84.35	81.35
58	380	75	MF-58	86.05	83.05
58	410	82	MF-58A	88.05	85.05
61	310	60	MF-61	82.35	79.35
62	380	75	MF-62	88.25	85.25
63	450	90	MF-63	92.55	89.55
64	475	120	MF-64	101.65	98.65
64	535	105	MF-64A	108.10	105.10
71	360	75	MF-71	79.85	76.85
72	430	95	MF-72	90.95	87.95

BCI GROUP	COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED	
				LIST	EXCH.
60 Months					
74	500	115	MF-74	88.05	85.05
48 Months					
21	330	68	MFR-21	72.00	69.00
22F	330	67	MFR-22FC	63.00	60.00
24C	410	75	MFR-24C	72.00	69.00
24F	410	75	MFR-24F	72.00	69.00
27C	485	95	MFR-27C	76.05	73.05
27F	485	95	MFR-27F	76.05	73.05
71	290	60	MFR-71	70.55	67.55
73	390	80	MFR-73	74.05	71.05
74	410	75	MFR-74	74.05	71.05
36 Months					
31	570	140	MF-31	162.35	—
31	700	170	MF-31A	166.05	—
31	700	170	MF-31AS	166.05	—
31	570	160	MF-31S	162.35	—

DRY CHARGE BATTERIES

Months of Adjusted Service	PREMIUM HEAVY DUTY					PREMIUM					STANDARD				
	60 Months					48 Months					36 Months				
	COLD CRANK-ING. AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED		COLD CRANK-ING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED		COLD CRANK-ING AMPS. (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED	
LIST				EXCH.	LIST				EXCH.	LIST				EXCH.	
BCI GROUP															
22F	370	93	G-22FC	70.00	67.00	310	75	R-22FC	58.00	55.00	230	52	GN-22FC	56.00	53.00
						370	93	R-22FCA	62.85	59.85					
23						410	105	R-23	75.75	72.75					
24C	470	130	G-24C	82.05	79.05	290	75	R-24C	64.00	61.00	230	52	GN-24C	56.00	53.00
						380	100	R-24CA	71.10	68.10					
						420	118	R-24CB	71.80	68.80					
24F	470	130	G-24F	82.05	79.05	380	100	R-24F	64.00	61.00	230	52	GN-24F	56.00	53.00
						460	120	R-24FA	72.55	69.55					
27C	530	159	G-27C	84.05	81.05	390	106	R-27C	70.00	67.00					
						475	138	R-27CA	83.25	80.25					
27F	530	159	G-27F	84.05	81.05	450	125	R-27F	72.00	69.00					
						470	130	R-27FA	72.00	69.00					
29HR						520	163	R-29HR	101.30	98.30					
29NF						300	73	R-29NF	69.80	66.80	245	53	GN-29NF	63.70	61.70
30H						580	163	R-30H95	131.15	128.15					
32N						345	95	R-32N	75.75	72.75					
43						395	120	R-43	70.00	67.00					
54						310	60	R-54	69.80	66.80					
55						380	75	R-55	74.40	71.40					
56						450	90	R-56	80.05	77.05					
60						310	83	R-60	74.40	71.40					
64						475	120	R-64	85.90	82.90					
74											300	63	GN-74	56.00	53.00

12 VOLT SIDE TERMINAL BATTERIES

Months of Adjusted Service	PREMIUM HEAVY DUTY				
	60 Months				
	COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED	
LIST				EXCH.	
BCI GROUP					
72	370	93	G-72	78.05	75.05
74	470	130	G-74	84.05	81.05
77					

PREMIUM				
48 Months				
COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED	
			LIST	EXCH.
300	63	R-72	66.00	63.00
380	100	R-74	68.00	65.00
455	120	R-77	91.15	88.15

NOTE: THE BATTERIES IN THE FOLLOWING SECTION HAVE BEEN REPLACED BY THE TESTED TOUGH BATTERY LINE. PRICES AND SPECIFICATIONS ARE PROVIDED HERE FOR REFERENCE ONLY.

6 VOLT BATTERIES PASSENGER CARS AND LIGHT TRUCKS

Months of Adjusted Service	PREMIUM					STANDARD				
	36 Months					36 Months				
	COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED		COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED	
BCI GROUP				LIST	EXCH.				LIST	EXCH.
1	395	120	1HG	55.70	52.70	290	73	GN-1	47.15	45.15
2	475	150	2HG	62.95	59.95	345	93	GN-2	47.15	45.15
2E	485	160	2E	56.00	53.00	370	110	GN-2E	47.15	45.15
2L	395	120	2LG	55.70	52.70					
2N	495	170	2HN	56.00	53.00					

BATTERIES FOR IMPORT CARS

18	430	140	1LSH	55.70	52.70					
19L						365	120	1LS	50.00	47.00
22NF						245	52	10HN	63.25	60.25
42*	300	75	E42	73.80	70.80					
42*	350	95	E42F	75.75	72.75					

*48 Months of adjusted, service.

TRACTOR BATTERIES

BCI GROUP	COLD CRANKING AMPS (@ 0°)	RES. CAP.	PART NO.	SUGGESTED	
				LIST	EXCH.
1	440	140	1MS	56.75	—
	345	93	1MST	52.05	—
3EH	830	340	3EHA-172	109.05	—
3ET	425	120	3HE	96.05	—
4DLT	760	280	4DLT	167.85	—
4EH	880	420	4EH	123.95	—
17TF	395	120	17TF	120.05	—

SNOWMOBILE LIGHT UTILITY AND LAWNMOWER

BCI GROUP	COLD CRANKING AMPS	RES. CAP.	PART NO.	SUGGESTED	
				LIST	EXCH.
U1	160	23	LU-7	49.40	47.40
U1	200	32	LU-9	53.30	51.30
U1	200	32	SM-9	63.45	61.45

OFF-ROAD EQUIPMENT — HEAVY DUTY TRUCK AND BUS

1	545	185	R-1	61.40	58.40
2	650	235	R-2	84.05	81.05
3	650	235	R-3	90.05	—
4	720	280	R-4	107.35	—
	700	290	V-4	101.40	—

GOLF CART — INDUSTRIAL

	75 Amp Discharge (MIN.)				
GC2	90	200	2GC	101.40	—
	110	215	2GCA	107.70	—

DIESEL ENGINE STARTING BATTERIES

4D	700	290	4DA	205.30	—
5D	830	340	5DA	113.25	—
7D	900	430	7DA	127.55	—
8D	900	430	8DA	239.70	—
	900	430	8DAT	250.10	—
	1000	395	8DB	311.35	—
16TF	640	240	16TF	170.05	—

12 VOLT OUTBOARD MARINE

24	315	73	GN-24M	72.10	74.10
	470	135	G-24M	95.40	92.40
	390	100	R-24M	84.55	81.55

ACCESSORIES AND ELECTROLYTE

PART NUMBER	DESCRIPTION	PACKAGE QUANTITY	LIST
BB-14*	QUIK-PAK Electrolyte 5 Gallon (with hose & clamp)	1	9.20
BB-16	Electrolyte 1.54 Gallon (with Hose)	1	4.40
BB-40	Tiltite Spillproof Battery Caps	24	1.45 List Each

*Minimum Contents 4.95 Gallons

NOTE: THE BATTERIES IN THE FOLLOWING SECTION HAVE BEEN REPLACED BY THE TESTED TOUGH BATTERY LINE. PRICES AND SPECIFICATIONS ARE PROVIDED HERE FOR REFERENCE ONLY.

(REFER TO SEPARATE TABLE FOR O.E. PRO RATA ADJUSTMENT)

MOTORCRAFT TYPE NUMBER	PASSENGER CARS AND LIGHT TRUCKS		TRUCKS ONE TON AND OVER, TAXIS, POLICE CARS, BUSES, TRACTORS, MARINE AND ALL OFF-HIGHWAY APPLICATIONS	
	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH
E-42	48	1.54	24	3.08
E-42F	48	1.58	24	3.16
G-22FC	60	1.17	30	2.33
G-24C	60	1.37	30	2.74
G-24F	60	1.37	30	2.74
G-24M	—	—	24	3.98
G-27C	60	1.40	30	2.80
G-27F	60	1.40	30	2.80
G-72	60	1.30	30	2.60
G-74	60	1.40	30	2.80
GN-1	36	1.31	18	2.62
GN-2	36	1.31	18	2.62
GN-2E	36	1.31	18	2.62
GN-3EE	36	1.73	18	3.46
GN-22FC	36	1.56	18	3.11
GN-24C	36	1.56	18	3.11
GN-24F	36	1.56	18	3.11
GN-24M	—	—	12	6.43
GN-29NF	36	1.77	18	3.54
GN-74	36	1.56	18	3.11
LU-7	—	—	12	4.12
LU-9	—	—	12	4.44
MFR-21	48	1.50	24	3.00
MF-22FC	60	1.23	30	2.47
MFR-22FC	48	1.31	24	2.63
MF-24C	60	1.43	30	2.87
MFR-24C	48	1.50	24	3.00
MF-24F	60	1.43	30	2.87
MFR-24F	48	1.50	24	3.00
MF-27C	60	1.47	30	2.94
MF-27CA	60	1.88	30	3.77
MFR-27C	48	1.58	24	3.17
MF-27F	60	1.47	30	2.94
MFR-27F	48	1.58	24	3.17
MF-31	—	—	36	4.51
MF-31A	—	—	36	3.14
MF-31AS	—	—	36	3.14
MF-31S	—	—	36	4.51
MF-57	60	1.41	30	2.81
MF-58	60	1.43	30	2.87
MF-58A	60	1.47	30	2.94
MF-61	60	1.37	30	2.75
MF-62	60	1.47	30	2.94
MF-63	60	1.54	45	3.09
MF-64	60	1.69	30	3.39
MF-64A	60	1.80	30	3.60
MF-71	60	1.33	30	2.66
MFR-71	48	1.47	24	2.94
MF-72	60	1.52	30	3.03
MFR-73	48	1.54	24	3.09
MF-74	60	1.47	30	2.94
MFR-74	48	1.54	24	3.09
R-1	—	—	24	2.56
R-2	—	—	24	3.50
R-3	—	—	36	1.76
R-4	—	—	36	2.98
R-4R-15(8V)	—	—	24	4.61
R-22FC	48	1.21	24	2.42
R-22FCA	48	1.31	24	2.62
R-22FCB	48	1.49	24	2.98
R-22HF	48	1.49	24	2.98
R-22HFA	48	1.50	24	3.00

MOTORCRAFT TYPE NUMBER	PASSENGER CARS AND LIGHT TRUCKS		TRUCKS ONE TON AND OVER, TAXIS, POLICE CARS, BUSES, TRACTORS, MARINE AND ALL OFF-HIGHWAY APPLICATIONS	
	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH
R-23	48	1.58	24	3.16
R-24C	48	1.33	24	2.67
R-24CA	48	1.48	24	2.96
R-24CB	48	1.50	24	2.99
R-24F	48	1.33	24	2.67
R-24FA	48	1.51	24	3.02
R-24FB	48	1.49	24	2.98
R-24M	—	—	18	4.70
R-27C	48	1.46	24	2.92
R-27CA	48	1.73	24	3.47
R-27F	48	1.50	24	3.00
R-27FA	48	1.50	24	3.00
R-27FB	48	1.61	24	3.23
R-29HR	48	2.11	24	4.22
R-29NF	48	1.45	24	2.91
R-30H-95	48	2.73	24	5.46
R-32N	48	1.58	24	3.16
R-43	48	1.46	24	2.92
R-53	48	1.45	24	2.91
R-54	48	1.45	24	2.91
R-55	48	1.55	24	3.10
R-56	48	1.67	24	3.34
R-60	48	1.55	24	3.10
R-64	48	1.79	24	3.58
R-72	48	1.38	24	2.75
R-74	48	1.42	24	2.83
R-74A	48	1.75	24	3.50
R-77	48	1.90	24	3.80
SM-9	—	—	12	5.29
V-3	—	—	24	3.71
V-4	—	—	24	4.23
1HG	36	1.55	18	3.09
1LS	36	1.39	18	2.78
1LSH	36	1.55	18	3.09
1MS	—	—	24	2.36
1MST	—	—	24	2.17
2E	36	1.56	18	3.11
2GC	—	—	18	5.63
2GCA	—	—	24	4.49
2HG	36	1.74	18	3.49
2HN	36	1.56	18	3.11
2LG	36	1.55	18	3.09
3EE	36	1.90	18	3.79
3EHA-172	—	—	24	4.54
3HE	—	—	24	4.00
4DA	—	—	24	8.55
4DLT	—	—	36	4.66
4EH	—	—	36	3.44
5DA	—	—	24	4.72
6DA	—	—	24	9.08
7DA	—	—	24	5.31
8DA	—	—	24	9.99
8DAT	—	—	24	7.21
8DB	—	—	24	12.97
10HN	36	1.76	18	3.51
16TF	—	—	24	4.94
17TF	—	—	36	3.33

NOTE: THE BATTERIES IN THE FOLLOWING SECTION HAVE BEEN REPLACED BY THE TESTED TOUGH BATTERY LINE. PRICES AND SPECIFICATIONS ARE PROVIDED HERE FOR REFERENCE ONLY.

MOTORCRAFT TYPE NUMBER	PASSENGER CARS AND LIGHT TRUCKS A		TRUCKS ONE TON AND OVER, TAXIS, POLICE CARS, BUSES, TRACTORS, MARINE AND ALL OFF-HIGHWAY APPLICATIONS	
	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH
E-42F	36	2.10	24	3.08
G-24F	36	2.28	24	3.42
MF-22FC	36	2.06	24	3.09
MF-24F	36	2.39	24	3.59
MF-27F	36	2.45	24	3.67
MF-31	—	—	36	4.51
MF-31A	—	—	36	4.61
MF-31AS	—	—	36	4.61
MF-31S	—	—	36	4.51
MF-57	36	2.34	24	3.51
MF-58	36	2.39	24	3.59
MF-58A	36	2.39	24	3.59

MOTORCRAFT TYPE NUMBER	PASSENGER CARS AND LIGHT TRUCKS A		TRUCKS ONE TON AND OVER, TAXIS, POLICE CARS, BUSES, TRACTORS, MARINE AND ALL OFF-HIGHWAY APPLICATIONS	
	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH
MF-61	36	2.29	24	3.43
MF-62	36	2.45	24	3.68
MF-63	36	2.57	24	3.86
MF-64	36	2.82	24	4.23
MF-64A	36	3.00	24	4.50
R-24F	36	1.78	24	2.67
R-24FA	36	2.01	24	3.02
R-27F	36	2.00	24	3.00
R-27FA	36	2.00	24	3.00
R-54	36	1.94	24	2.91
R-55	36	2.07	24	3.10
R-56	36	2.22	24	3.34
R-64	36	2.39	24	3.58

NOTE: THE BATTERIES IN THE FOLLOWING SECTION HAVE BEEN REPLACED BY THE TESTED TOUGH BATTERY LINE. PRICES AND SPECIFICATIONS ARE PROVIDED HERE FOR REFERENCE ONLY.

MAINTENANCE FREE BATTERY SPECIFICATION CHART

BATTERY TYPE	VOLTS	OVERALL DIMENSIONS (INCHES)			WEIGHT (LBS.)
		LENGTH	WIDTH	HEIGHT	
MF-22FC	12	9-1/2	6-13/16	8-15/32	38.3
MFR-22FC	12	9-1/2	6-27/32	8-15/32	29
MF-24C	12	10-9/32	6-13/16	9-1/16	46.8
MFR-24C	12	10-9/32	6-27/32	9-1/16	35
MF-24F	12	10-3/4	6-13/16	9-1/16	46.8
MFR-24F	12	10-3/4	6-27/32	9-1/16	35
MF-27C	12	12-1/16	6-13/16	9-1/16	55.8
MFR-27C	12	12-1/16	6-27/32	9-1/16	41
MF-27F	12	12-1/2	6-13/16	9-1/16	55.9
MFR-27F	12	12-1/32	6-27/32	9-1/16	41
MF-31	12	13-3/32	7-1/8	9-3/4	65.3
MF-31A	12	13-3/32	7-1/8	9-3/4	73.8
MF-31AS	12	13-3/32	7-1/8	9-13/16	73.8
MF-31S	12	13-3/32	7-1/8	9-13/16	65.3

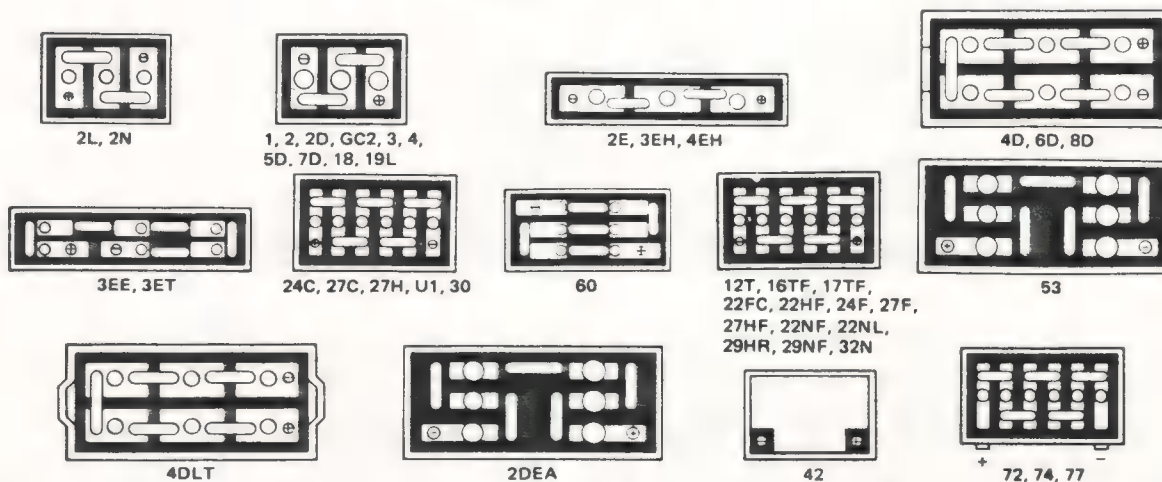
BATTERY TYPE	VOLTS	OVERALL DIMENSIONS (INCHES)			WEIGHT (LBS.)
		LENGTH	WIDTH	HEIGHT	
MF-57	12	8	7-3/16	7	26.8
MF-58	12	9-7/16	7-13/16	7	32.7
MF-58A	12	9-7/16	7-3/16	7	34.1
MF-61	12	7-9/16	6-7/16	8-7/8	27.4
MF-62	12	8-15/16	6-7/16	8-7/8	33.4
MF-63	12	10-3/16	6-7/16	8-7/8	38.4
MF-64	12	11-9/16	6-5/16	8-7/8	43.2
MF-64A	12	11-9/16	6-5/16	8-7/8	43.3
MFR-71	12	8-5/32	7-5/32	8-1/8	29
MF-72	12	9-1/16	7-5/32	7-21/32	40.3
MFR-73	12	8-5/16	7-5/32	8-1/8	33
MF-74	12	10-9/32	7-5/32	8-9/32	46.8
MFR-74	12	10-9/32	7-5/32	8-9/32	35

DRY CHARGE BATTERY SPECIFICATION CHART

BATTERY TYPE	VOLTS	OVERALL DIMENSIONS (INCHES)			APPX. QTS. REQ'D.
		LENGTH	WIDTH	HEIGHT	
E42	12	9-13/16	6-7/8	6-29/32	3-1/4
E-42F	12	9-13/16	6-7/8	7-1/4	3-1/4
G-22FC	12	9-7/16	6-7/8	8-5/16	4
G-24C	12	10-9/32	6-27/32	8-15/16	5-1/2
G-24F	12	10-25/32	6-27/32	8-13/16	5-2/5
G-24M	12	10-9/32	6-13/16	9-7/8	4-1/2
G-27C	12	12-1/16	6-27/32	8-13/16	6-1/2
G-27F	12	12-17/32	6-27/32	8-13/16	6-1/2
G-72	12	9-7/16	7-9/32	8-1/4	4-1/2
G-74	12	10-9/32	7-9/32	8-3/4	5-1/2
GN-1	6	9-1/16	7-1/16	8-15/16	4-1/2
GN-2	6	10-5/16	7-1/16	8-15/16	5-1/4
GN-2E	6	19-1/4	4	9-1/32	5-1/2
GN-22FC	12	9-1/2	6-13/16	8-5/16	3-3/4
GN-24C	12	10-1/4	6-13/16	8-15/16	5-1/4
GN-24F	12	10-3/4	6-13/16	8-15/16	5
GN-24M	12	10-9/32	6-13/16	9-7/8	4-1/2
GN-29NF	12	13	5-1/2	9-5/32	4-3/4
GN-74	12	10-9/32	7-5/32	8-3/4	6-1/4
LU-7	12	7-3/4	5-5/32	7-9/32	2
LU-9	12	7-3/4	5-5/32	7-9/32	2
R-1	6	9-1/16	7-1/16	8-15/16	4-1/2
R-2	6	10-5/16	7-1/16	9-9/32	5-1/2
R-3	6	11-1/2	7-1/16	9-9/32	6-1/4
R-4	6	12-11/16	7-1/16	9-9/32	7
R-22FC	12	9-7/16	6-7/8	8-5/16	3-3/4
R-22FCA	12	9-7/16	6-7/8	8-5/16	4-1/2
R-22HF	12	9-7/16	6-7/8	8-13/16	4-1/4
R-23	12	10-3/4	6-7/8	8-7/16	4
R-24C	12	10-9/32	6-27/32	8-13/16	5
R-24CA	12	10-9/32	6-27/32	8-13/16	5
R-24CB	12	10-9/32	6-27/32	8-13/16	5-1/5
R-24F	12	10-25/32	6-27/32	8-13/16	5
R-24FA	12	10-25/32	6-27/32	8-13/16	5
R-24M	12	10-9/32	6-13/16	9-7/8	6-1/4
R-27C	12	12-1/16	6-27/32	8-13/16	5-3/4
R-27CA	12	12-1/16	6-27/32	8-13/16	5-3/5
R-27F	12	12-17/32	6-27/32	8-13/16	5-1/4

BATTERY TYPE	VOLTS	OVERALL DIMENSIONS (INCHES)			APPX. QTS. REQ'D.
		LENGTH	WIDTH	HEIGHT	
R-27FA	12	12-17/32	6-27/32	8-13/16	5
R-29HR	12	13-1/8	6-13/16	9-3/16	6-3/4
R-29NF	12	13	5-1/2	9-5/32	5
R-30H-95	12	13-17/32	6-17/32	9-9/32	6-1/2
R-32N	12	14-1/4	5-1/2	9-5/32	5-3/4
R-43	12	13-3/16	6-7/8	8-1/16	6
R-54	12	7-11/32	6-1/32	8-3/8	4
R-55	12	8-19/32	6-1/32	8-3/8	5
R-56	12	10-1/32	6-1/32	8-3/8	5
R-60	12	13-1/16	6-1/4	8-15/16	6
R-64	12	11-11/16	6-5/16	8-14/16	6
R-72	12	9-7/16	7-9/32	8-1/4	4-1/2
R-74	12	10-9/32	7-9/32	8-3/4	3-3/4
R-77	12	12-1/16	7-9/32	8-3/4	5
V-4	6	12-11/16	7-1/16	9-9/32	7
1HG	6	9-1/16	7-1/16	8-15/16	4-1/4
1LS	6	8-3/8	6-3/4	7-13/32	2-3/4
1LSH	6	7-13/16	6-29/32	8-19/32	3
1MS	6	9-1/16	7-1/16	8-15/16	4-1/4
1MST	6	9-1/16	7-1/16	8-15/16	4-1/2
2GC	6	10-3/8	7-1/8	11-19/32	6
2GCA	6	10-3/8	7-1/8	11-19/32	6
2HG	6	10-5/16	7-1/16	9-9/32	5-1/2
2HN	6	10	5-1/2	9-1/16	3-3/4
2LG	6	10-5/16	7-1/16	8-3/8	4-3/4
3EE	12	19-5/16	4-3/8	8-25/32	5-1/2
3EHA-172	6	19-5/16	4-11/32	9-25/32	6
3HE	12	19-5/16	4-3/8	9-23/32	6
4DA	12	20-3/4	8-3/4	9-13/16	11-1/2
4DLT	12	20	8-3/16	8-29/32	10
5DA	6	13-1/2	7-1/8	9-1/4	6
7DA	6	16-1/4	7-1/8	9-1/4	7-1/4
8DA	12	20-3/4	11-13/16	9-13/16	15-1/2
8DAT	12	22-1/4	11	9-13/16	15-1/2
8DB	12	20-3/4	11	9-23/32	15-1/2
10HN	12	9-7/16	5-1/2	9-61/64	3-1/4
16TF	12	16-17/32	7-1/8	11-5/32	10
17TF	12	17-1/16	6-7/8	8-29/32	7

BATTERY TERMINAL POSITION AND CELL LAYOUTS



MOTORCRAFT BATTERY LIMITED WARRANTY FOR OTHER THAN "TESTED TOUGH" BATTERIES

The label shown below will be attached to Motorcraft batteries shipped after April 1, 1982. Batteries with this label are warranted by Ford Motor Company to the consumer. The terms and conditions of the warranty are shown on the label.

When a Motorcraft battery is purchased, it is important that the tear-off portion of the label is removed by the owner or installer. The owner's name, address and date of purchase are to be filled in and the card should be attached to the owner's proof-of-purchase invoice and placed in the vehicle glove compartment. Both items must be furnished in case of subsequent battery failure.

CLAIM HANDLING PROCEDURES FOR DEALERS, WHOLESALEERS AND FLEETS

Batteries presented for warranty must be properly tested and recharged if necessary to determine whether they are, in fact, serviceable. Batteries that are discharged-only or that have been stored without use or recharging for extended periods are not eligible for replacement under warranty.

When a battery is found to be not serviceable, the time in service is to be determined by examination of the owner's warranty card and proof-of-purchase invoice. Qualified Fleets are required to enter the date of installation. Purchase invoices are not required.

Depending on the time in service, the owner is to receive as a replacement an equivalent Motorcraft battery on a gratis (no cost) or pro rata basis as described on the label.

Dealers, Wholesaleers and Fleets are to submit supporting documents to Motorcraft Warehouse Distributors, National Accounts and Special Market Accounts to obtain warranty on Motorcraft batteries. These Motorcraft accounts will in turn submit claims to Ford Parts and Service Division for reimbursement. When transactions between different levels of distribution occur, internal invoices or memorandums should be prepared using information from the tear-off portion of the warranty label and proof-of-purchase invoice.

Motorcraft		PART NO. MFR-27F	ADJ. PERIOD 48
BATTERY LIMITED WARRANTY			
This Motorcraft battery is warranted by Ford Motor Co. to the original retail purchaser for the time shown above when it is used in a private passenger car or light truck. If the battery fails to hold a charge due to a defect in material or workmanship it should be returned to a Motorcraft retailer or wholesaler. THIS CARD AND YOUR DATED PURCHASE INVOICE ARE REQUIRED FOR WARRANTY REPLACEMENT.			
Name _____		Date Purchased _____	
(Date installed for Fleet Service)			
Address _____		City _____ State _____	
If failure occurs within the first 3 months from date of purchase, the battery will be replaced with an equivalent Motorcraft battery free of charge. After this period, the cost of replacement will be prorated on the basis of a monthly charge for the number of months after purchase. For privately owned cars and light trucks, the monthly cost is based on the current Motorcraft suggested list price at the time of adjustment. Fleet, Farm, Marine and other commercial users are covered by specific application and adjustment periods published in Motorcraft Fleet and consumer price lists.			
IMPORTANT: Further Warranty information is on the reverse side of this card. DETACH AND KEEP WITH YOUR PURCHASE INVOICE			
PLANT CODE SERIAL NUMBER № 314134			

Motorcraft		PART NO. MFR-27F
POISON/DANGER - CAUSES SEVERE BURNS Contains sulfuric acid. Avoid contact with skin, eyes or clothing. Antidote: EXTERNAL - Flush with water. INTERNAL - Drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs or vegetable oil. Call physician immediately. Eyes: Flush with water for 15 minutes and get prompt medical attention. Batteries produce explosive gases: Keep sparks, flame, cigarettes away. Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries. KEEP OUT OF REACH OF CHILDREN		COLD CRANKING AMPS 485
		RESERVE CAPACITY 95
		DIST. BY FORD MOTOR CO. DEARBORN, MICH. 48121 SERIAL NUMBER № 314134

The Motorcraft Limited Battery Warranty does not cover:

1. Failure as a result of use in applications other than those recommended in Motorcraft catalogs
2. Damage to case, cover or terminals caused by abuse, negligence, freezing or improper installation
3. Cost of recharging or use of a rental battery
4. Labor to remove and replace battery in the vehicle
5. To the extent allowed by law, loss of time, inconvenience, loss of use of the vehicle or other consequential damages

THERE IS NO OTHER EXPRESS WARRANTY ON MOTORCRAFT BATTERIES.

ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS IS LIMITED TO THE DURATION OF THE WRITTEN WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF CONSEQUENTIAL OR INCIDENTAL DAMAGES OR HOW LONG AN IMPLIED WARRANTY LASTS. SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Inquiries concerning this warranty should be directed to:

Warranty Administration, Ford Parts and Service Division
3000 Schaefer Road Dearborn, Michigan 48126

(Reverse Side of Warranty Card)

Motorcraft QUALITY PARTS

FOR ALL MAKES OF CARS AND TRUCKS

MOTORCRAFT INTERCHANGE

Tested Tough Line to Previous Line

TESTED TOUGH BATTERY NO.	REPLACES
BA-24	R-24C, GN-24C
BA-24F	GN-24F
BA-74	GN-74
BH-1	R-1, 1MS, 1HG, GN-1
BH-2	R-2, 2HG, GN-2
BH-3EE	3EE
BH-3EH	3EHA-172
BH-3ET	3HE
BH-4	R-4, V-4
BH-4D	4DA
BH-4DLT	4DLT
BH-7D	7DA
BH-8D	8DA, 8DB
BH-22NF	10HN
BH-24M*	G-24M, R-24CB
BH-27A	MF-27CA
BH-29H	R30H-95, MF-31, MF-31A
BH-29NF	R-29NF
BH-31A	MF-31S, MF-31AS
BH-GC2	2GC, 2GCA
BH-U1	LU-7, LU-9
BR-21	MFR-21
BR-22F	MFR-22FC, GN-22FC, R-22FC
BR-24	MFR-24C, R-24CA
BR-24F	MFR-24F, R-24F, R-23
BR-42	E-42
BR-42F	E-42F
BR-45	NONE-NEW
BR-56	R-54, R-55, R-56
BR-61	MF-61
BR-62	MF-62
BR-71	MF-71, MFR-71, R-72
BR-74	R-74, MFR-74
BX-22F	MF-22FC, G-22FC, R-22FCA
BX-24	MF-24C, G-24C
BX-24F	MF-24F, G-24F, R-24FA
BX-24FA	MF-24F
BX-27	R-27C, MF-27C, MFR-27C, G-27C
BX-27F	G-27F, MF-27F, MFR-27F, R-27F, R-27FA, R-29HR
BX-33	NONE-NEW
BX-41	NONE-NEW
BX-58B	MF-57, MF-58, MF-58A
BX-63	MF-63
BX-64	MF-64, R-64
BX-64A	MF-64A, MF-64, R-64
BX-65	NONE-NEW
BX-71	MFR-73, G-72
BX-74	MF-74, G-74, R-77

*Check terminal height to hood clearance.

DIGEST SHEET

TITLE OF ORDINANCE: SPECIAL

DEPARTMENT REQUESTING ORDINANCE: PURCHASING

SYNOPSIS OF ORDINANCE:

An ordinance approving the award of Reference #813, with respect to the purchase of all types and sizes of vehicle batteries for the City Utilities Garage. This award should be to the Crown Battery Mfg. Company, reflecting the lowest cost to the City of Fort Wayne

J. 87-09-18

EFFECT OF PASSAGE:

The City Utilities Garage is responsible for keeping the entire fleet of vehicles in proper working order. The purchase of batteries is one commodity that needs to be in stock at all times.

EFFECT OF NON-PASSAGE:

Without the purchase of batteries, it would be impossible to assure that all the vehicles would continue to work properly at any given time.

MONEY INVOLVED (direct costs, expenditures, savings):

Crown Battery Mfg. Company	\$29,000.00 +/-
	<i>* 10,000</i>

ASSIGNED TO COMMITTEE (President):

BILL NO. S-87-09-18

REPORT OF THE COMMITTEE ON CITY UTILITIES

WE, YOUR COMMITTEE ON CITY UTILITIES TO WHOM WAS

REFERRED AN (ORDINANCE) (~~RESOLUTION~~) approving the awarding of Reference
#813, by the City of Fort Wayne, Indiana, by and through its Department of
Purchasing and Crown Battery Manufacturing Company, for the City Utilities
Garage.


HAVE HAD SAID (ORDINANCE) (~~RESOLUTION~~) UNDER CONSIDERATION AND BEG
LEAVE TO REPORT BACK TO THE COMMON COUNCIL THAT SAID (ORDINANCE)
(~~RESOLUTION~~)

YES

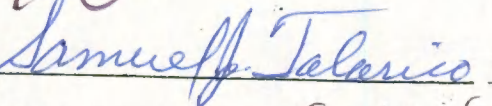
NO

 CHARLES B. REDD
CHAIRMAN

 PAUL M. BURNS
VICE CHAIRMAN

 THOMAS C. HENRY

 BEN A. EISBART

 SAMUEL J. TALARICO

CONCURRED IN 9-22-87

SANDRA E. KENNEDY
CITY CLERK